

Empty results again

Posted by hchen - 2009/06/11 23:28

Hi, Shea. I got empty results again. I checked the soil shapefile and the results after running parameterizer of land_cover and soil looks normal: have field of CN and Cover, no zero data, the table of soil_outputs looks good. I have no idea where the problem happens.

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Re:Empty results again

Posted by isburns - 2009/06/12 18:51

I need more information. Are the empty results from the same discretization that you've gotten results from before? What does the screenshot look like when you run the model from the command line?

shea

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Re:Empty results again

Posted by hchen - 2009/06/12 19:35

This is another watershed. The preview one has been run successfully. And, the DOS window is as following

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:
C:\Program Files\USDA-ARS SWRCAGWA2\workspace\CGC3\CGC3SWATsimulations\CGC3A>swat2003_mod.exe
      SWAT2005
      Soil & Water Assessment Tool
      PC Version
      Program reading from file.cio . . . executing
```

forrtl: severe (161): Program Exception - array bounds exceeded

Image	PC	Routine	Line	Source
swat2003_mod.exe	00536144	READSOL		110 readsol.f
swat2003_mod.exe	0053D1B6	READSUB		307 readsub.f
swat2003_mod.exe	00515C45	READFIG		161 readfig.f
swat2003_mod.exe	004B4C7D	MAIN		101 main.f
swat2003_mod.exe	006986E9	Unknown		Unknown Unknown
swat2003_mod.exe	0067DAF9	Unknown		Unknown Unknown
kernel32.dll	7C816FE7	Unknown		Unknown Unknown

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Re:Empty results again

Posted by isburns - 2009/06/12 19:40

The problem is still with your soils. Does it run for SWAT 2000 or does that crash too? Are you using the same soils shapefile for the parameterization?

shea

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Re:Empty results again

Posted by hchen - 2009/06/12 19:49

I run SWAT 2000 too, and got same followed

C:\Program Files\USDA-ARS SWRCAGWA2\workspace\CGC3\CGC3\SWATsimulations\CGC3A>swat2003_mod.exe

SWAT2005

Soil & Water Assessment Tool

PC Version

Program reading from file.cio . . . executing

forrtl: severe (161): Program Exception - array bounds exceeded

Image	PC	Routine	Line	Source
swat2003_mod.exe	00536144	READSOL	110	readsol.f
swat2003_mod.exe	0053D1B6	READSUB	307	readsub.f
swat2003_mod.exe	00515C45	READFIG	161	readfig.f
swat2003_mod.exe	004B4C7D	MAIN	101	main.f
swat2003_mod.exe	006986E9	Unknown	Unknown	Unknown
swat2003_mod.exe	0067DAF9	Unknown	Unknown	Unknown
kernel32.dll	7C816FE7	Unknown	Unknown	Unknown

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Re:Empty results again

Posted by hchen - 2009/06/12 19:57

Also, I used same soil shape files and soil database. Actually, this watershed is part of Colorado-GrandCanopy Watershed, and the preview one, which was run successfully, is another part from Colorado-GrandGrandCanopy Watershed. So, I use combined soil shapefile, and the soil database which imported soil tabular data from all of the three states for both of them.

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Re:Empty results again

Posted by hchen - 2009/06/12 20:01

C:\Program Files\USDA-ARS SWRCAGWA2\workspace\CGC3\CGC3\SWATsimulations\CGC3\WAT2000

SWAT2000

Soil & Water Assessment Tool

Sorry, I the following is from SWAT2000.

PC Version

Program reading from file.cio . . . executing

forrtl: severe (161): Program Exception - array bounds exceeded

Image	PC	Routine	Line	Source
swat2000.exe	004EE4A0	READSOL	148	readsol.f
swat2000.exe	004F2C8A	READSUB	228	readsub.f
swat2000.exe	004D832D	READINPT	70	readinpt.f
swat2000.exe	0048FD5D	MAIN	83	main.f
swat2000.exe	005DF8A9	Unknown	Unknown	Unknown
swat2000.exe	005D2154	Unknown	Unknown	Unknown
kernel32.dll	7C816FE7	Unknown	Unknown	Unknown

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Re:Empty results again

Posted by isburns - 2009/06/27 22:25

Offline, we determined that the problem in this particular case was caused by water being the dominant soil type of two subwatersheds. This can occur when parameterizing discretizations around large bodies of water, in this case Lake Powell.

If you run the model from the command line and receive an error message similar to the ones above, namely if they include READSOL, than there is a problem with the soils parameterization. In this particular case, we looked at the .SOL files for the simulation and noticed two subwatersheds had -99 values throughout the file. We tracked the subbasin numbers at the top of the problematic .SOL files back to associated id field in the subwatershed attribute table and determined the problematic soil id. To workaround the problem caused by the soil id representing water, we changed the soil id value to one of the neighboring subwatershed's soil id.

Shea

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